

ABSTRACT OF THE DISCLOSURE

A method for producing permanent integral connections of oxide-dispersed metallic materials by welding. The materials or components to be connected are overlapped to form an overlapping region in a joining region of the overlapping region. The materials or components are heated below the melting temperatures of the materials and are welded to at least partially form a diffusion bond by a welding method. A noble metal foil may be between the components to be connected. The diffusion bond is heated subsequently to a temperature below the melting temperature of the materials or components and the bond is mechanically recompacted by hammering.